

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/019139

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01M11/06 B60Q1/10 B60Q1/12 B60Q11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01M B60Q G01R H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/114974 A1 (SMITH JAMES E ET AL) 19 June 2003 (2003-06-19) page 2, paragraph 16 page 3, paragraph 25 page 8, paragraph 53	1
A	US 2003/057955 A1 (GUMBEL MATTHEW J ET AL) 27 March 2003 (2003-03-27) abstract page 1, paragraph 4 page 2, paragraph 20 page 2, paragraph 22	1
	----- -/-- -----	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

15 March 2005

Date of mailing of the international search report

24/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Aubard, S

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/019139

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/163814 A1 (HAYAMI TOSHIHISA ET AL) 7 November 2002 (2002-11-07) abstract page 2, paragraph 24 page 4, paragraph 32 page 5, paragraph 38 -----	1
A	EP 0 108 257 A (BAYERISCHE MOTOREN WERKE AKTIENGESELLSCHAFT) 16 May 1984 (1984-05-16) abstract -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/019139

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2003114974	A1	19-06-2003	EP	1316474 A2		04-06-2003
			US	2003107898 A1		12-06-2003
<hr/>						
US 2003057955	A1	27-03-2003	CA	2403527 A1		21-03-2003
			DE	10243792 A1		10-04-2003
			SE	0202710 A		22-03-2003
<hr/>						
US 2002163814	A1	07-11-2002	JP	2002326536 A		12-11-2002
			DE	10220147 A1		30-01-2003
			FR	2822425 A1		27-09-2002
			GB	2375387 A , B		13-11-2002
<hr/>						
EP 0108257	A	16-05-1984	DE	3237165 A1		12-04-1984
			EP	0108257 A2		16-05-1984
<hr/>						